

FIG. 2

09837036-070801

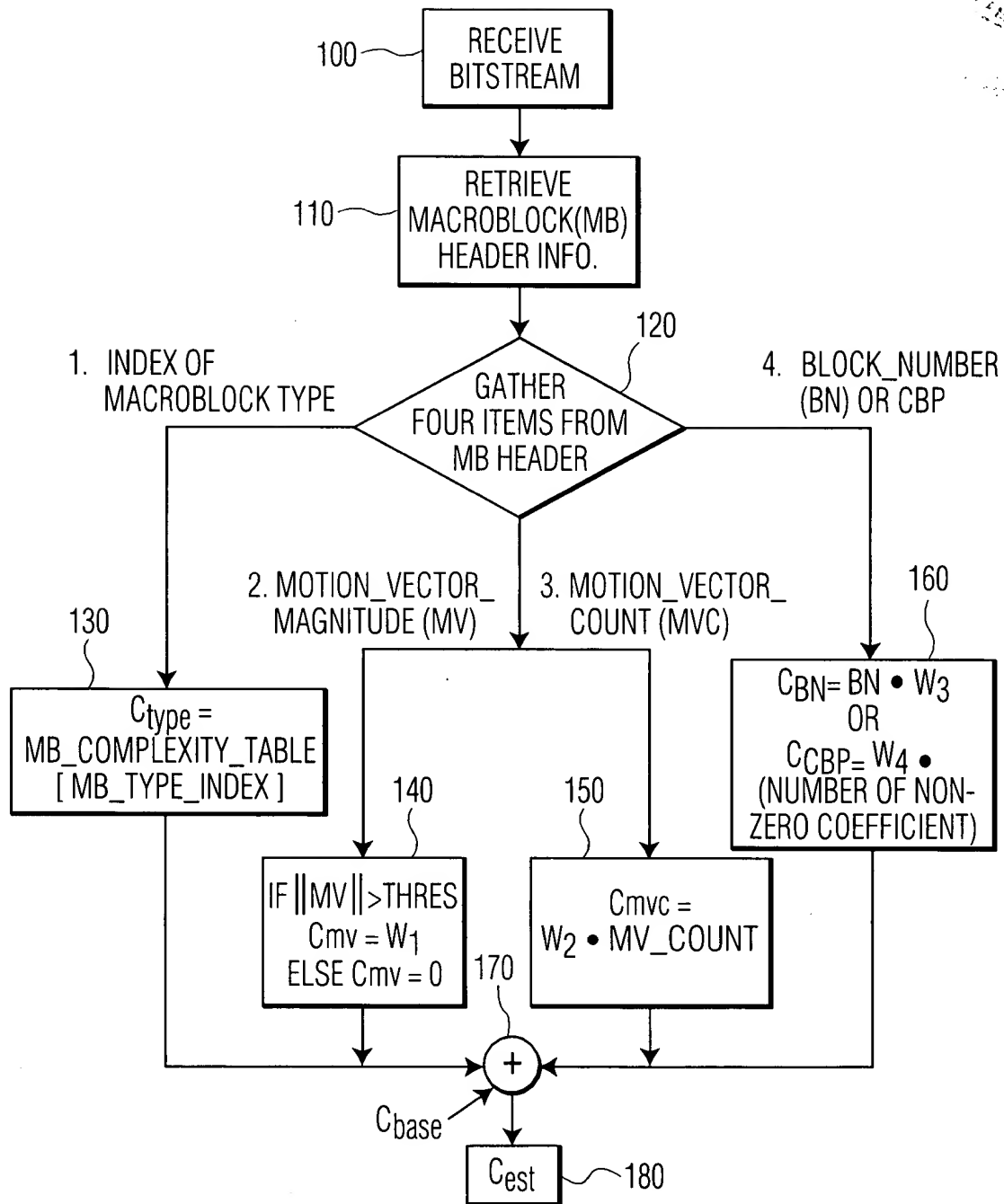


FIG. 3

| MACROBLOCK<br>TYPE      | MACROBLOCK_<br>QUANT | MACROBLOCK_<br>MOTION<br>FORWARD | MACROBLOCK_<br>MOTION_<br>BACKWARD | MACROBLOCK_<br>PATTERN | MACROBLOCK_<br>INTRA | VLC |
|-------------------------|----------------------|----------------------------------|------------------------------------|------------------------|----------------------|-----|
| INTRA                   |                      |                                  |                                    |                        | 1                    | 1   |
| INTRA, MACROBLOCK_QUANT |                      |                                  |                                    |                        | 1                    | 01  |

FIG. 4a

| MACROBLOCK<br>TYPE                | MACROBLOCK_<br>QUANT | MACROBLOCK_<br>MOTION<br>FORWARD | MACROBLOCK_<br>MOTION<br>BACKWARD | MACROBLOCK_<br>PATTERN | MACROBLOCK_<br>INTRA | VLC    |
|-----------------------------------|----------------------|----------------------------------|-----------------------------------|------------------------|----------------------|--------|
| MC_CODED                          |                      | 1                                |                                   | 1                      |                      | 1      |
| NO MC, CODED                      |                      |                                  |                                   | 1                      |                      | 01     |
| MC NOT CODED                      |                      | 1                                |                                   |                        |                      | 001    |
| INTRA                             |                      |                                  |                                   |                        | 1                    | 00011  |
| MC, CODED,<br>MACROBLOCK_QUANT    | 1                    | 1                                |                                   | 1                      |                      | 00010  |
| NO MC, CODED,<br>MACROBLOCK_QUANT |                      | 1                                |                                   | 1                      |                      | 00001  |
| INTRA, MACROBLOCK_QUANT           | 1                    |                                  |                                   |                        | 1                    | 000001 |

FIG. 4b

| MACROBLOCK<br>TYPE                         | MACROBLOCK_<br>QUANT | MACROBLOCK_<br>MOTION<br>FORWARD | MACROBLOCK_<br>MOTION_<br>BACKWARD | MACROBLOCK_<br>PATTERN | MACROBLOCK_<br>INTRA | VLC     |
|--|----------------------|----------------------------------|------------------------------------|------------------------|----------------------|---------|
| MC INTERPOLATED,<br>NOT CODED              |                      | 1                                | 1                                  |                        |                      | 10      |
| MC INTERPOLATED, CODED                     |                      | 1                                | 1                                  | 1                      |                      | 11      |
| MC BACKWARD, NOT CODED                     |                      |                                  | 1                                  |                        |                      | 010     |
| MC BACKWARD, CODED                         |                      |                                  | 1                                  | 1                      |                      | 011     |
| MC FORWARD, NOT CODED                      |                      | 1                                |                                    |                        |                      | 0010    |
| MC FORWARD, CODED                          |                      | 1                                |                                    | 1                      |                      | 0011    |
| INTRA                                      |                      |                                  |                                    |                        | 1                    | 0001 1  |
| MC INTERPOLATED, CODED<br>MACROBLOCK_QUANT | 1                    | 1                                | 1                                  | 1                      |                      | 0001 0  |
| MC FORWARD, CODED<br>MACROBLOCK_QUANT      | 1                    | 1                                |                                    | 1                      |                      | 0000 11 |
| MC BACKWARD, CODED<br>MACROBLOCK_QUANT     | 1                    |                                  | 1                                  | 1                      |                      | 0000 10 |
| INTRA, MACROBLOCK_QUANT                    | 1                    |                                  |                                    |                        | 1                    | 0000 01 |

FIG. 4c

MACROBLOCK (MB) COMPLEXITY TABLE

| MB-TYPE          | MB-TYPE-INDEX | WEIGHT CODE |
|------------------|---------------|-------------|
| INTRA            | 0 0           | 0           |
| NOT MC,<br>CODED | 0 1           | W           |
| MC,<br>NOT CODED | 1 0           | 2W          |
| MC,<br>CODED     | 1 1           | 3W          |

FIG. 5

T08020" 9E0ZE860

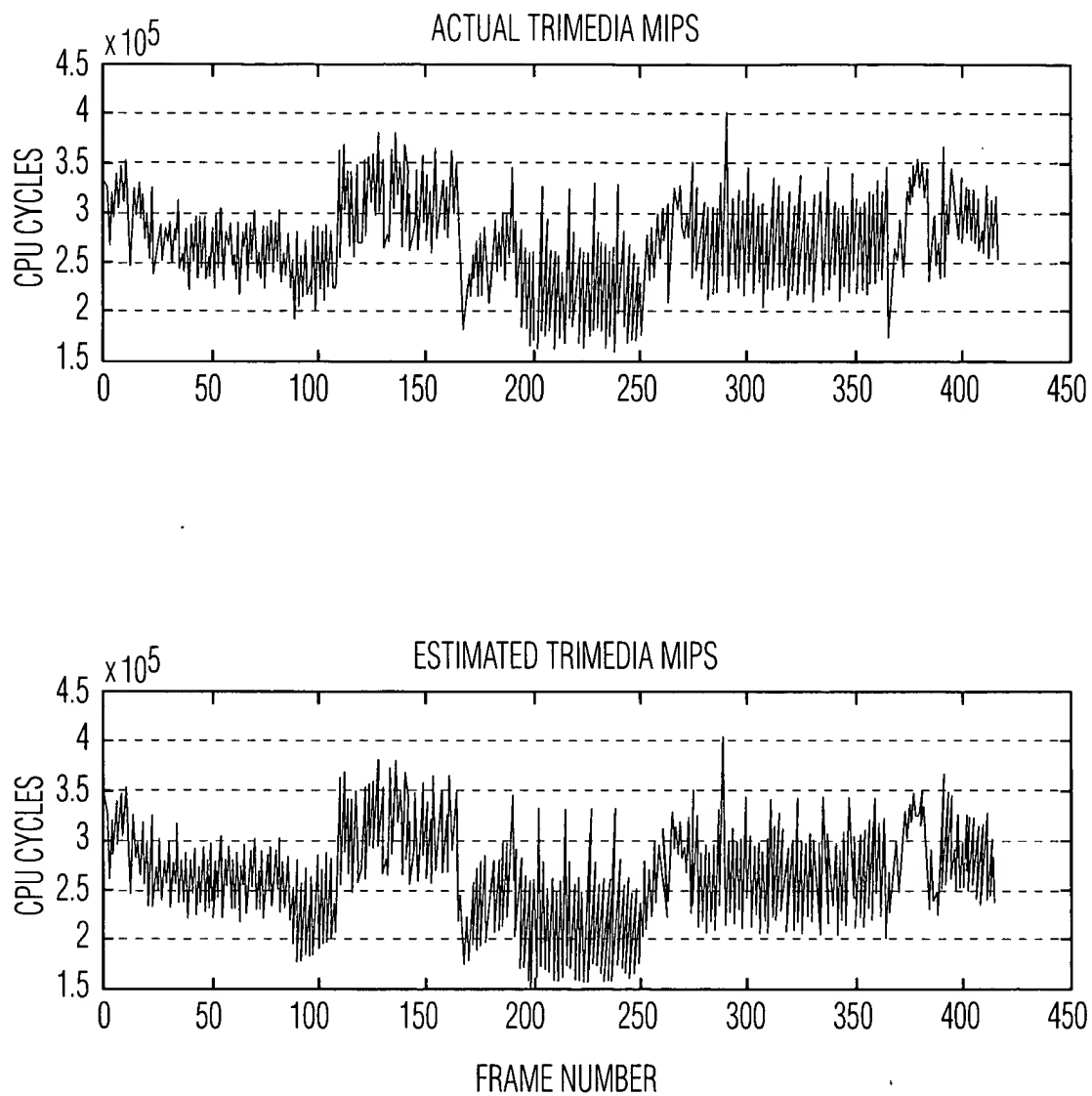


FIG. 6a



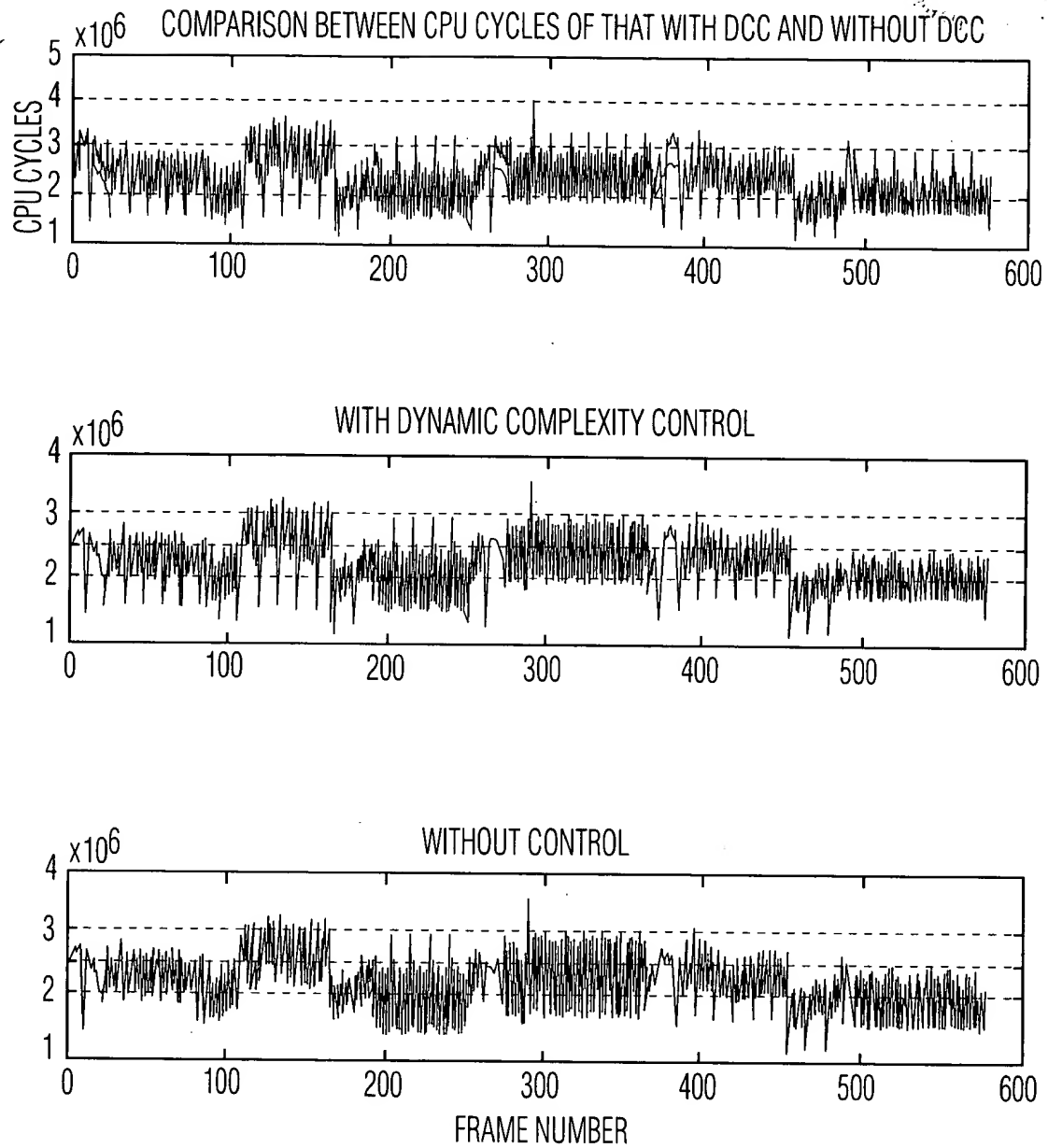


FIG. 6b